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Neuse River Basin Supplement to the Teachers' Guide to Environmental Education Programs and Resources



1996 Edition

Prepared by
Office of Environmental Education

Department of Environment, Health and Natural Resources

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

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Neuse River Basin Supplement
to the
Teachers' Guide
to
Environmental Education
Programs and Resources
1995-96 edition

Prepared by

**The North Carolina Department of Environment, Health and
Natural Resources**

Office of Environmental Education

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The Honorable James B. Hunt, Jr., Governor

Jonathan Howes, Secretary

Henry Lancaster, Assistant Secretary for Natural Resources

Acknowledgments

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A special thank you to Senator Beverly Perdue and the Senate Select Committee on River Water Quality and Fish Kills.

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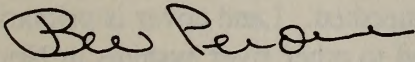
FOREWARD

The Senate Select Committee on River Water Quality and Fish Kills has been charged with investigating the status of North Carolina waters from the Cape Fear in the southeast to the Virginia line and develop priorities for solving the water quality problems that exist. The state has a long history of technical assistance and regulatory programs to protect water quality in a variety of agencies, yet as an educator you know better than anyone else that education must be a significant element in environmental stewardship.

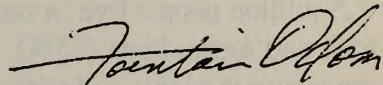
The Committee's charge to investigate North Carolina rivers and waterways is a direct result of the problems observed on the Neuse River. The summer of 1995 illustrated the importance of our task as we saw and heard distressing reports of water quality problems and fish kills. These events awakened all of us to the general lack of understanding of complex natural systems, and the extent to which our personal actions contribute to pollution problems.

The need for better understanding of natural systems and improved critical thinking and problem solving skills are essential for sound decision making. In the *Neuse River Basin Supplement* and its companion, the *Teachers' Guide to Environmental Education Programs and Resources*, we have catalogued environmental education programs and other resources for your use. These two publications will provide the tools necessary to bring environmental awareness into your classroom or youth organization.

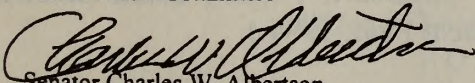
As education professionals, you have the most important task - that of teaching the citizens and future leaders of this state. But whether they become parents, farmers, business owners, government representatives, or teachers, it is you who will supply them today with the understanding and skills they will need to make better decisions about our natural systems tomorrow. We need your help. You know what needs to be done and we ask for your insight on how we can help you do it. Our sincere thanks for your inspired efforts to help our young people acquire the sense of stewardship and a conservation ethic that will serve us all.



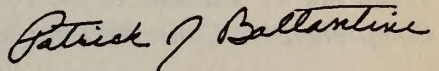
Senator Beverly Perdue, Chair
Senate Select Committee



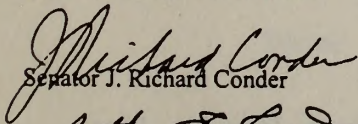
Senator T. L. Odom



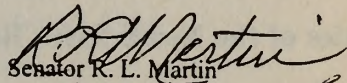
Senator Charles W. Albertson



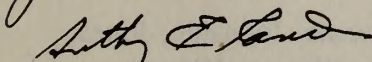
Senator Patrick J. Ballantine



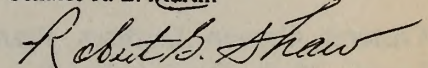
Senator J. Richard Conder



Senator R. L. Martin



Senator Anthony E. Rand



Senator Robert G. Shaw

Neuse River Basin Summary

The Neuse forms where the Eno and Flat rivers converge just above Durham in the Piedmont section of North Carolina. The upper reaches of the Neuse usually span less than 150 yards across and the current is fairly rapid. A dam on the upper portion near Raleigh creates the Falls Lake reservoir. Just below the fall line in Lenoir County lies a 100-foot deep canyon, carved by the Neuse and unique among North Carolina's coastal rivers. The Neuse River is fresh water for about 150 miles from its source until it reaches the city of New Bern. At New Bern, the river widens to about one mile and freshwater flow begins mixing with the salt water from the ocean, creating a brackish estuarine environment. The Neuse continues from New Bern for 40 miles before reaching the Pamlico Sound where it widens to about five miles. During this last stretch across the flat Coastal Plain the river current slows. The Neuse River basin encompasses all or part of 23 counties and almost 3.5 million acres. The surface of the rivers, streams, and estuarine waters themselves cover more than 145,000 acres.

The Neuse Basin includes a variety of important natural habitat for rare species and communities as well as other valuable and unique natural communities. Wetlands throughout the basin provide vital animal habitats, water quality protection, flood control, and other important functions. The estuarine waters include about 2,750 acres of primary nursery areas and 1,250 acres of secondary nursery areas, habitats critical to North Carolina's coastal fisheries. The rivers and streams of the Neuse Basin are spawning areas for anadromous fish such as shad and herring which are saltwater species that migrate upriver to spawn in freshwater. Other important commercial and recreational fishing stocks in either the fresh or estuarine waters of the Neuse include catfish, bass, flounder, blue crab, and oyster.

Many of the Neuse River Basin habitats are protected through government holdings in parks and refuges. State parks encompass about 1.4% of the basin or 48,000 acres. The Wildlife Resources Commission holds approximately 3.2% or 110,000 acres in game lands. In addition, 1.7% or 58,000 acres is National Forest.

Just over 1.5 million people live in the Neuse watershed. Land cover is primarily forest (36%) and agriculture (35%). Compared to other river systems in North Carolina the Neuse is highly industrialized. The military owns over 21,000 acres. There are 13 marinas in the Neuse basin. (*Albemarle-Pamlico Estuarine Study Comprehensive Conservation and Management Plan, 1994.*)

Counties of the Neuse River Basin

Carteret, Craven, Durham, Franklin, Granville, Greene, Johnston, Jones, Lenoir, Nash, Orange, Pamlico, Person, Pitt, Wake, Wayne, Wilson

Overview

The *Neuse River Basin Supplement* to the *Teachers' Guide to Environmental Education Programs and Resources* is published as a service and information source for North Carolina educators. This supplement is a companion document to the *Teachers' Guide to Environmental Education Programs and Resources*. Without the "parent" document, this supplement is diminished in value to users. Environmental Education programs that enhance understanding of the Neuse River basin, its ecology, and its value as a natural resource are identified to assist teachers and others with both classroom and field experiences. All programs described promote interactive, hands-on learning resources.

The *Neuse River Basin Supplement* and its parent document, the *Teachers' Guide to Environmental Education Programs and Resources*, are divided into four main categories for your convenience.

- **Environmental Education Programs and Activities That Come To You** utilize school grounds and facilities. Programs include instructional activities and competitions administered by the indicated agencies.
- **Environmental Education Field Trips And Site Visits** require travel to a facility or field site.
- **Educational Opportunities For Teachers** describes professional development opportunities many of which offer certificate renewal, continuing education, or graduate credit.
- **Environmental Education Support Materials** includes resources that promote hands-on learning in the classroom.

We welcome your questions and comments and encourage you to contact the appropriate agency or environmental education center for more information on the programs listed in this guide.

Office of Environmental Education
P.O. Box 27687
Raleigh, NC 27611-7687
Phone: 919-733-0711 or 800-482-8724
Fax: 919-733-1616

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**ENVIRONMENTAL EDUCATION
PROGRAMS AND ACTIVITIES
THAT COME TO YOU**

EDUCATIONAL SERVICES GUIDE - OUTREACH PROGRAMS
NORTH CAROLINA MARITIME MUSEUM

- Type of Program:** The *Educational Services Guide* outlines all classroom visitation programs. Topics include the ecology and environmental issues relating to intertidal areas, spoil banks, barrier islands (the types of environments adjacent to the Neuse River and Neuse River basin.)
- Audience:** Kindergarten - College
- Teacher Accreditation:** N/A
- Location:** Visitation programs serve all areas of North Carolina
- When:** The *Educational Services Guide* outlines programs offered throughout the year. Programs involving outdoor activities are scheduled from March through November.
- Cost:** Costs for programs are listed in the *Educational Services Guide* and vary according to the program.
- Contact:** North Carolina Maritime Museum, Educational Department
315 Front Street
Beaufort, NC 28561
Phone: 919-728-7317 Fax: 919-728-2108
Email: j_powellncs0018@interpath.com

Please ask for a copy of the *Educational Services Guide* which outlines museum services. The quarterly museum *Calendar* may be requested for information detailing special events, programs, field trips, exhibits, and workshops available.

MUDDY WATER
NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF LAND RESOURCES - LAND QUALITY SECTION

- Type of Program:** Essay contest on the subject of water quality, the control of soil erosion, and the sedimentation process caused by land disturbing activity.

For more information refer to the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-96 edition, pp. 5-6.

REPTILES AND AMPHIBIANS (MEET THE ...)

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES*

- Type of Program:** Hands on program including live animals.
- Audience:** Organized groups numbering 30 or less - school groups, science clubs, scouts, 4-H, etc.
- Teacher Accreditation:** N/A
- Location:** Program may be brought to your meeting location
- When:** Available upon request depending upon availability of animals
- Cost:** \$60 per one hour presentation (\$50 for institutions and nonprofit groups)
- Contact:** NC Dept. Of Environment, Health and Natural Resources
North Carolina State Museum of Natural Sciences
Outreach Coordinator
P.O. Box 29555
Raleigh, NC 27626
Phone: 919-733-7450 Fax: 919-733-1573
-

SOIL AND WATER POSTER, SPEECH AND ESSAY CONTESTS

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF SOIL AND WATER CONSERVATION*

- Type of Program:** Extensive public education program that includes local school systems regarding natural resource conservation. The local Soil and Water Districts work to help people understand the consequences of erosion and pollution.

For more information refer to the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-96 edition, pp. 8-10.

TURTLE TOPICS

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES*

- Type of Program:** This program reviews turtle characteristics, life styles,

diversity, and captive care. Many different kinds of turtles will be available for the group to see and touch.

Audience: Organized groups numbering 30 or less - school groups, school science clubs, scout troops, 4-H clubs, etc.

Teacher Accreditation: N/A

Location: Program may be brought to your meeting location

When: Available upon request depending on availability of animals

Cost: \$60 per one hour presentation (\$50 for institutions and nonprofit groups)

Contact: N.C. Dept. Of Environment, Health and Natural Resources
North Carolina State Museum of Natural Sciences
Outreach Coordinator
P.O. Box 29555
Raleigh, NC 27626
Phone: 919-733-7450 Fax: 919-733-1573

WETLANDS

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES*

Type of Program: Participants see living examples of North Carolina's wetlands animals and learn what role they play in this important ecosystem that is so critical for many animals.

Audience: Any organized group numbering 30 or less - school classes, science clubs, scouts, 4-H, etc.

Teacher Accreditation: N/A

Location: Program may be brought to your meeting location

When: Available upon request

Cost: \$60 per one hour presentation (\$50 for institutions or nonprofit groups)

Contact:

N.C. Dept. Of Environment, Health and Natural Resources
North Carolina State Museum of Natural Sciences
Outreach Coordinator
P.O. Box 29555
Raleigh, NC 27626
Phone: 919-733-7450 Fax: 919-733-1573

For additional information on Environmental Education programs and activities that will come to your school or classroom please refer to the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-96 edition pp-1-17.

ENVIRONMENTAL EDUCATION FIELD TRIPS AND SITE VISITS

AQUATIC ECOLOGY

BLUE JAY POINT COUNTY PARK - WAKE COUNTY

Type of Program: Blue Jay Point offers organized, staff led programs on a variety of topics concerning water related information and issues. Topics include: qualitative and quantitative study of the ecology of lotic and lentic systems, aquatic invertebrate identification, wetland and watershed issues, and other topics upon request. Program content is dependent upon the needs and abilities of the group.

Audience: Organized groups, school groups, ages K - adult

Teacher Accreditation: N/A

Location: Blue Jay Center for Environmental Education

When: Year round on a first come, first served basis

Cost: \$25 per group

Contact: Blue Jay Point County Park
Assistant Park Manager - Programs
3200 Pleasant Union Church Road
Raleigh, NC 27614
Phone: 919-870-4330 Fax: 919-870-4327

BIRDS - ENVIRONMENTAL INDICATORS

***NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
FORT MACON STATE PARK***

Type of Program: A Park Ranger examines with the group the different adaptations of coastal fishing birds and how each bird can be used as an indicator of human impacts on the environment. Birds discussed are the Pelican, Osprey, and Great Blue Heron.

Audience: All ages

Teacher Accreditation: N/A

Location: Atlantic Beach
When: Year - round
Cost: Free
Contact: Fort Macon State Park
P.O. Box 127
Atlantic Beach, NC 28512
Phone: 919-726-3775 Fax: 919-726-2497

CLIFFS OF THE NEUSE GEOLOGICAL HISTORY
NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
CLIFFS OF THE NEUSE STATE PARK

Type of Program: Most Interpretive and Educational programs concern the history and formation of the "Cliff" after which our park is named. The cliff is a geological history timepiece. Different layers of sand and soils are exposed in the cliff, revealing the history of land formation in our area. The Neuse River has played an important part in forming the cliffs. Programs include natural and cultural history of the Neuse River as it pertains to the park. Special programs are available if sufficient notice is given and providing the theme is consistent with Park policies and guidelines.

Audience: 1st - 6th grades

Teacher Accreditation: N/A

Location: Cliffs of the Neuse State Park

When: March - November (Monday, Tuesday, Wednesday)

Cost: Free

Contact: Cliffs of the Neuse State Park
Interpretation and Education Ranger
345-A Park Entrance Road
Seven Springs, NC 28578
Phone: 919-778-6234 Fax: 919-778-7447

CROATAN NATIONAL FOREST SAFARI
NORTH CAROLINA COASTAL FEDERATION

Type of Program: The safari unfolds along a coastal nature trail where we encounter a cross section of the natural communities of the Croatan, including old-growth, long-leaf pine, and the Patsy Pond natural area. The Croatan is home to many unusual and rare plant and animal species, including the endangered red-cockaded woodpecker and insect eating plants. The program is approximately 2 hours long.

Audience: School groups K-12

Teacher Accreditation: N/A

Location: Croatan National Forest, New Bern

When: Every Monday, May-October. Other times and days for groups by appointment.

Cost: \$5 per person, free to organized school groups with own transportation.

Contact: North Carolina Coastal Federation
Education Specialist
3609 Highway 24 (Ocean)
Newport, NC 28570
Phone: 919-393-8185 Fax: 919-393-7508

Other programs available through N. C. Coastal Federation include: "Open Beach and Inlet Investigation," "Trawl and Seine Expedition," and "Barrier Island and Sound Adventure," which are limited to six people per trip. For more information contact the Coastal Federation and request the *Coastal Adventures* brochure.

EDUCATIONAL SERVICES GUIDE
NORTH CAROLINA MARITIME MUSEUM

Type of Program: The Educational Services Guide outlines all field opportunities available through the museum. Experiences focus on estuarine environments and related issues and provide a wide range of hands-on learning experiences in the museum and in the field. The ecology and environmental issues relating to intertidal areas, spoil banks, and barrier islands - the types of

environments adjacent to the Neuse River and surrounding basin - are introduced and investigated in the activities.

Audience: K-College, adults, and special needs groups. Target group and size limitations are listed for each program in the *Educational Services Guide*.

Teacher Accreditation: N/A

Location: North Carolina Maritime Museum, Beaufort, NC and field sites.

When: Programs and field trips involving outdoor activities are scheduled from March through November and are specified in the *Educational Services Guide*.

Cost: Costs vary according to program and are listed in the *Educational Services Guide*.

Contact: North Carolina Maritime Museum, Education Dept.
315 Front Street
Beaufort, NC 28516
Phone: 919-728-7317 Fax: 919-728-2108
Email: j_powellncs0018@interpath.com

ENVIRONMENTAL FIELD DAYS

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF SOIL AND WATER CONSERVATION*

Type of Program: Natural resource conservation programs for school students sponsored by the local Soil and Water Conservation District. Counties target varying age groups for Environmental Field Days. For more information see the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-96 edition, pp 73-77 for a listing of the Soil and Water District office in your county.

FOREST EDUCATION

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF FOREST RESOURCES
CLEMMONS EDUCATIONAL STATE FOREST*

Type of Program: Ranger conducted programs are offered to all ages and grades. These programs include: Our Productive Forest, Meet Your Tree, Tree Ring, New Forests for Wildlife, Predators and Prey, True Story of Smokey the Bear, North Carolina Forest Service Forest Ranger (career), Forest Water Investigation, Forest Soils Investigation, How Paper Comes from Trees, What We Get from Trees, Forest Life Game, Forest Fire Control, and Forest Flowers. The Educational State Forests have been developed for use as living environmental education centers. These managed forests are designed to promote a better understanding of the value of our forests, soils, water, and wildlife.

Audience: K-College

Teacher Accreditation: N/A

Location: Clayton, NC

When: Program availability varies. Call office for more information

Cost: None

Contact: Clemmons Educational State Forest
Forest Supervisor
2411 Old US 70 West
Clayton, NC 27520
Phone: 919-553-5651 Fax: 919-553-4486

FOREST EDUCATION

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF FOREST RESOURCES
JORDAN LAKE EDUCATIONAL STATE FOREST*

Type of Program: Programs offered at Jordan Lake are similar to the 14 programs described under the Clemmons Educational State Forest above. The classes are developed by rangers and North Carolina's Competency-Based Curriculum. Rangers conduct 30-45 minute classes on a variety of topics associated with forests and the forest ecosystem. Additional information on specific classes is available upon request.

Audience: K-6

Teacher Accreditation: N/A

Location: Chapel Hill, NC

When: Programs by reservation only. Forest closed Thanksgiving Day and Christmas Day.

Cost: Free

Contact: Jordan Lake Educational State Forest
Forest Supervisor
2832 Big Woods Road
Chapel Hill, NC 27514
Phone: 919-542-1154 Fax: 919-542-1707

LIVING WATERS

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
ENO RIVER STATE PARK*

Type of Program: The Eno River State Park Environmental Education Learning Experience (EELE) includes 2 pre-visit activities, 4 on-site activities, and 2 post-visit activities. In general this program surveys water quality, indicators of water quality, aquatic sampling, resource management, and stewardship. EELE teacher training workshops are or will be available to assist teachers in using this material with their classes.

Audience: Primarily Grades 6-8 but can be adapted for other age groups

Teacher Accreditation: N/A

Location: Durham, NC and Orange County

When: Late Spring and Early Fall

Cost: Free

Contact: Eno River State Park
Education Specialist
6101 Cole Mill Road
Durham, NC 27705
Phone: 919-383-1686 Fax: 919-382-7378

LOGGERHEAD SEA TURTLE

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
FORT MACON STATE PARK*

Type of Program: The program explores the ecology of the Loggerhead Sea Turtle.

Audience: K-College

Teacher

Accreditation: N/A

Location: Atlantic Beach, NC

When: Programs available upon request

Cost: Free

Contact: Fort Macon State Park
P.O. Box 127
Atlantic Beach, NC 28512
Phone: 919-726-3775 Fax: 919-726-2497

MARSH MEADOWS

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
FORT MACON STATE PARK*

Type of Program: "Marsh Meadows" examines the characteristics of the marsh, the role of plants in a marsh community, and man's impact on wetlands.

Audience: Grades 3-12

Location: Atlantic Beach

When: Year-round but best in Fall and Spring

Cost: Free

Contact: Fort Macon State Park
P.O. Box 127
Atlantic Beach, NC 28512
Phone: 919-726-3775 Fax: 919-726-2497

NORTH CAROLINA AQUARIUM-PINE KNOLL SHORES
NC DEPT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

Type of Program: The Aquarium offers numerous educational programs which relate water quality and marine habitats, fish and other animals. Many of these programs are open to the general public and are identified in the quarterly calendar or available by request.

For more information about the North Carolina Aquariums, refer to the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-96 edition.

PLASTIC PROBLEMS
NC DEPT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
FORT MACON STATE PARK

Type Of Program: A Park Ranger gives an interactive 30-45 minute presentation that examines the consequences of plastic pollution in the marine environment.

Audience: All ages

Teacher Accreditation: N/A

Location: Atlantic Beach

When: Year-round

Contact: Fort Macon State Park
P.O. Box 127
Atlantic Beach, NC 28512
Phone: 919-726-3775 Fax: 919-726-2497

A POND STUDY
RALEIGH PARKS AND RECREATION

Type of Program: A one-hour, outdoor, hands-on learning experience for pre-schoolers through 5th grade students led by an experienced naturalist. Participants use dip nets, puppets, plastomounts and more to enhance learning. The program explores life forms in the aquatic environment, food chains/webs, and water quality. Pre-visit packet of materials is available upon request.

Audience: Preschoolers - 5th Grade

Teacher Accreditation: N/A

Location: Durant Nature Park, Raleigh

When: Programs available in the Spring and Fall and must be scheduled in advance.

Cost: \$30 per program

Contact: Raleigh Parks and Recreation
Naturalist
P.O. Box 590
Raleigh, NC 27602
Phone: 919-831-6856 Fax: 919-831-6470

RALEIGH ADVENTURE PROGRAMS
RALEIGH PARKS AND RECREATION

Type of Program: Summer camps for young teens designed to teach group building, responsibility, outdoor ethics and skills including sessions emphasizing canoeing on the Neuse River. Adventures also include exploration of aquatic life forms, water quality, river ecology, river recreation, safety, and low impact camping.

Audience: Teens aged 12-15

Teacher Accreditation: N/A

Location: Durant Nature Park and Umstead State Park, Neuse River, Raleigh

When: Summer

Cost: Costs vary with camp. \$200 - \$300 for the 2 week session including field trips and some overnight adventures.

Contact: Raleigh Parks and Recreation
Adventure Specialist
P.O. Box 590
Raleigh, NC 27602
Phone: 919-831-6857 Fax: 919-831-6470

SEINING THE SOUND

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
FORT MACON STATE PARK*

Type of Program: Students discover what thrives in Bogue Sound by learning to use a seine net.

Audience: K-College

Teacher Accreditation: N/A

Location: Atlantic Beach

When: May-August

Cost: Free

Contact: Fort Macon State Park
Atlantic Beach, NC 28512
Phone: 919-726-3775 Fax: 919-726-2497

“SPLASH”

HANDS ON NATURE

Type of Program: Learn, experience and explore the Neuse River. A fun, hands-

on approach to awaken and encourage a child's natural curiosity and wonder. We will explore the banks of the river, discover aquatic life and look at environmental impact.

- Audience:** K - 8th grade, groups up to 30
- Teacher Accreditation:** NA
- Location:** On-site in Triangle area or off-site to your location for scouts, home schoolers, 4-H, etc.
- When:** Available upon request
- Cost:** \$55 per group for the first hour, \$45 for second hour
- Contact:** HANDS ON NATURE
11112 Farmwood Dr.
Raleigh, NC 27613
Phone: 919-676-1615 Fax: 919-846-5625
-

STREAM ECOLOGY

STEVENS NATURE CENTER

- Type of Program:** Typical programs include watershed management and ecology, natural history, animal and plant identification, fish identification and ecology, wetland ecology, and water quality issues. All programs include hands on activities and are tailored for the ages of participants.
- Audience:** preschool - Adult
- Teacher Accreditation:** N/A
- Location:** Cary, NC (Hemlock Bluffs Nature Preserve)
- When:** Programs delivered throughout the year or available upon request.
- Cost:** \$25 per group Cary residents, \$30 per group for nonresidents

Contact: Stevens Nature Center
Naturalist
2616 Kildaire Farm Rd.
Cary, NC 27511
Phone: 919-387-5980 Fax: 919-387-8160

WATER QUALITY EDUCATIONAL EXHIBITS
BLUE JAY POINT COUNTY PARK - WAKE COUNTY

Type of Program: Permanent educational exhibits concerning water and water quality issues. Exhibits include: From the Lake to the Tap, The Water Cycle, Falls Lake Watershed, Neuse River Basin. The later describes the river, streams, and surrounding lands and the effect that humans have had upon them.

Audience: K-Adult

Teacher Accreditation: N/A

Location: Raleigh/Wake County

When: The exhibit area is open from 8 AM to 5 PM daily

Cost: Free

Contact: Blue Jay Point County Park
Assistant Park Manager - Programs
3200 Pleasant Union Church Rd.
Raleigh, NC 27614
Phone: 919-870-4330 Fax: 919-870-4327

For additional information on field trip and site visit opportunities refer to the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-96 edition pp 21-41.

EDUCATIONAL OPPORTUNITIES FOR TEACHERS

AQUATIC WILD

NORTH CAROLINA WILDLIFE RESOURCES COMMISSION

Type of Program: Two-day, hands on workshop for K-12 teachers, 4-H agents, volunteers, and other environmental educators. The program focuses on how to use ponds, streams, and other aquatic environments as teaching tools. Interdisciplinary materials provided.

Audience: All formal and non-formal educators of students K-12

Teacher Accreditation: 1 CEU

Location: Statewide

When: Year-round

Cost: Free

Contact: North Carolina Wildlife Resources Commission
Division of Conservation Education
512 North Salisbury St.
Raleigh, NC 27604-1188
Phone: 919-733-7123 Fax: 919-733-7083

For more information concerning advanced programs offered by the Wildlife Resources Commission please refer to the Teachers' Guide to Environmental Education Programs and Resources, 1995-96 edition, pp 56-57.

COASTAL ECOLOGY WORKSHOPS FOR TEACHERS

NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: The workshops include the study of all major coastal habitats by exploring the relatively unspoiled Ocracoke Island. A portion of the workshop focuses on issues created by pollution from the Neuse basin and other sources.

Audience: North Carolina educators

Teacher Accreditation: 3 CEU's

Location: Ocracoke Island

When: July 7-11, 1996 (time will vary in subsequent years)

Cost: \$350.00

Contact: N.C. Dept. Of Environment, Health and Natural Resources
North Carolina Museum of Natural Sciences
Educational Coordinator
P.O. Box 29555
Raleigh, NC 27626-9555
Phone: 919-733-7450 Fax: 919-733-1573

COASTAL RESOURCES TEACHER TRAINING PROGRAMS/COURSES
NORTH CAROLINA SEA GRANT COLLEGE PROGRAM - NORTH CAROLINA STATE UNIVERSITY

Type of Program: Teacher workshops/college courses on a variety of coastal natural resource/environmental education topics.

Audience: K-12 Teachers, non-formal educators, occasionally pre-service teachers, natural resource students

Teacher Accreditation: Varies from CEU's to Graduate credit

Location: Varies, Courses through North Carolina State University, Raleigh

When: Workshops are offered at various times throughout the year but are usually held during the summer

Cost: Varies according to length and location of workshop

Contact: Lundie Spence
North Carolina Sea Grant
Box 8605, North Carolina State University
Raleigh, NC 27695-8605
Phone: 919-515-2454 Fax: 919-515-7095
Email: lundie_spence@ncsu.edu

EDUCATIONAL SERVICES GUIDE
NORTH CAROLINA MARITIME MUSEUM

Type of Program: Renewal credit workshops are offered throughout the year in such topics as art and science, nature photography, coastal

ecology, and threatened and endangered species.

Audiences: K-12 Teachers, non formal educators, interested adults

Teacher

Accreditation: CEU credits available but vary depending on length of workshop

Location: Beaufort, NC

When: Year-round

Cost: Costs for workshops vary and are listed in the *Educational Services Guide*.

Contact: North Carolina Maritime Museum, Education Department
315 Front Street
Beaufort, NC 28516
Phone: 919-728-7317 Fax: 919-728-2108
Email: j_powellNCS0018@interpath.com

ESTUARINE EDUCATION WORKSHOPS AND OUTREACH PROGRAMS *NORTH CAROLINA NATIONAL ESTUARINE RESEARCH RESERVE*

Type of Program: The North Carolina National Estuarine Research Reserve offers a variety of educational services about water quality and estuaries. Outreach programs can be based on chemical, physical, and biological aspects of the ecology of the lower reaches of the Neuse River. Coastal Issues, Estuary Net, Sound Ideas and other estuarine teacher enhancement programs are regularly scheduled.

Audience: K-12 Teachers, non formal educators, and interested persons

Teacher

Accreditation: CEU credit is available but varies depending on length of workshop

Location: Many workshops provided on school site as well as in the Reserve.

When: Various times throughout the year

Cost: Free

Contact: North Carolina National Estuarine Research Reserve
Education Coordinator
P.O. Box 1040
Beaufort, NC 28516
Phone: 919-728-2170 Fax: 919-728-6273

ESTUARY NET CURRICULUM

NORTH CAROLINA NATIONAL ESTUARINE RESEARCH RESERVE

Type of Program: "Estuary Net" is a science and telecommunications curriculum about collecting water quality data, data handling, and data sharing. Written with attention to scope and sequence, the project has three levels of action. This pilot year included five schools along the Neuse River with each site integrating "Estuary Net" into their own curricula.

Audience: Educators: Grades 6-12

Teacher

Accreditation: 1.0 CEU

Location: Many workshops are provided on the school site and are also available in a variety of locations.

When: Varies

Cost: Free

Contact: North Carolina National Estuarine Research Reserve
Education Coordinator
P.O. Box 1040
Beaufort, NC 28516
Phone: 919-728-2170 Fax: 919-728-6273

LIVING WATER

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF PARKS AND RECREATION
ENO RIVER STATE PARK*

Type of Program: Teachers' workshop designed to facilitate use of the Park's

Living Water Environmental Education Learning Experience. Topics covered include water quality, indicator species, water testing, watersheds, aquatic sampling, resource management, and stewardship.

Audience: Educators

Teacher Accreditation: 1 CEU for one 10 hour workshop (Shorter workshops are available without credit.)

Location: Durham, NC and Orange County

When: Late spring and early fall

Cost: Free

Contact: Eno River State Park
Lead Interpretation and Education Ranger
6101 Cole Mill Rd.
Durham, NC 27705
Phone: 919-383-1686 Fax: 919-382-7378

NEUSE RIVER CITIZEN'S WATER QUALITY MONITORING PROGRAM
ALBEMARLE-PAMLICO CITIZENS WATER QUALITY MONITORING PROGRAM

Type of Program: Workshop instructs teachers in water quality evaluation including essential sampling techniques, data collection, and data interpretation. Students learn to measure water temperature, air temperature, water depth, water clarity, pH, dissolved oxygen (D.O.), salinity, wind speed and direction, water color, and rainfall. Participating groups receive kits, supplies, and have a consulting Program Manager.

Audience: Middle grades - College. Due to the chemicals involved in testing, younger students need to be accompanied by an adult.

Teacher Accreditation: N/A

Location: Any site along the Neuse basin

When: Available upon request

Cost: Free

Contact: Albemarle-Pamlico Citizens Water Quality Monitoring Program
Program Director
East Carolina University
Institute for Coastal and Marine Resources
Greenville, NC 27858-4353
Phone: 919-328-1747 Fax: 919-328-4265

PROJECT WET

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES*

Type of Program: Project WET addresses water resource issues, water quality, and stewardship.

Audience: K-12 Educators

Teacher

Accreditation: 1 CEU for 10 hour workshop

Location: Workshops are held at various locations around the state.

When: Year-round at various times

Cost: \$10 per person

Contact: NC Dept. of Environment, Health and Natural Resources
Division of Water Resources
Education Coordinator
P.O. Box 27682
Raleigh, NC 27611
Phone: 919-715-5433 Fax: 919-733-3558
Email: GNORRIS@EHNR.STATE.NC.US

STREAM ECOLOGY

STEVENS NATURE CENTER

Type of Program: Teacher workshops are periodically given on a variety of topics regarding watershed management, ecology, and natural history.

Audience: K-12

Teacher Accreditation: Varies depending on workshop. Inquire prior to registration.

Location: Cary

When: Workshops are offered throughout the year and are available upon request.

Cost: Workshop costs vary from \$3 - \$15 depending on the length of workshop.

Contact: Stevens Nature Center
Naturalist
2616 Kildaire Farm Rd.
Cary, NC 27511
Phone: 919-387-5980 Fax: 919-387-8160

For more information on teacher workshops please refer to the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-96 edition, pp 43-59.

ENVIRONMENTAL EDUCATION SUPPORT MATERIALS

ENVIRONMENTAL
EDUCATION
SUPPORT MATERIALS



**ALBEMARLE-PAMLICO ESTUARINE REGION RESEARCH
PUBLICATIONS AND WATER QUALITY PROGRAM DOCUMENTS**
*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT*

Type of Program: Research data and reports, videos and curriculum materials pertaining to the Albemarle-Pamlico Estuarine Study (APES) in publication listing format. Also available, guides to fresh water and tidal saltwater classifications as well as a guide for coastal growth management as it relates to water quality.

Audience: Primary grades - Adults

Teacher Accreditation: N/A

When: Available upon request

Cost: Varies according to publication, however most are free

Contact: Public Involvement Coordinator
NC Dept. Of Environment, Health and Natural Resources
Division of Environmental Management
1424 Carolina Avenue
Washington, NC 27889
Phone: 919-946-6481 Fax: 919-946-3716

**BEYOND RECYCLING: A WASTE REDUCTION MANUAL FOR
SCHOOLS**

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
OFFICE OF WASTE REDUCTION*

Type of Program: Manual outlines ways for schools to reduce solid waste. Examples are provided of schools that have incorporated source reduction, reuse, composting, and recycling into an integrated solid waste management approach to waste reduction. Suggestions are given for school administrators, teachers, staff, students, and parents to promote total school community participation encouraging a permanent school program.

Audience: School administrators, teachers, PTA, parents, students, nutrition and maintenance staff

Teacher Accreditation: N/A

Location: Statewide

When: Year round

Cost: Free

Contact: NC Dept. Of Environment, Health and Natural Resources
Office of Waste Reduction
Attn: "Beyond Recycling"
P.O. Box 29569
Raleigh, NC 27626-9569
Phone: 919-715-6500 Fax: 919-715-6794

"BUG OUT" AND "MORE BUG OUT"
NORTH CAROLINA COOPERATIVE EXTENSION SERVICE

Type of Program: This 4-H entomology curriculum examines insects in the environment, beneficial insects versus pests, the food chain, and wise use of chemical sprays. A leader's guide and student activities are included.

Audience: Children ages 9-12

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Free

Contact: Agricultural Communications
Central Stores Annex
Box 7603
Raleigh, NC 27695-7603
Phone: 919-515-1559 Fax: 919-515-7273
or
Your county Cooperative Extension Office
(See Appendix)

“BRANCHING OUT”

NORTH CAROLINA COOPERATIVE EXTENSION SERVICE

Type of Program: This program emphasizes the stewardship of North Carolina Natural Resources. Fourteen classroom and outdoor activities link youth to the forest through the study of wildlife, recreation, trees, soil and water, and natural beauty.

Audience: Middle Grades (6-8)

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Free

Contact: Forestry Extension
Box 8003
North Carolina State University
Raleigh, NC 27695
Phone: 919-515-5518 Fax: 919-515-6883
or
Forest Stewardship Coordinator
P.O. Box 29581
Raleigh, NC 27626-0581
Internet address:
<http://www.ccs.ncsu.edu/nreos/forest/steward/pdf>

CURRICULUM FOR NON-PUBLIC EDUCATION GROUPS

CHERISH THE EARTH, INC.

Type of Program: In-the-Field curriculum modules on environmental issues including water, soil, air, waste management, and ocean and beaches. These modules have been designed as an integrated subject approach so that children will be able to view the whole scene and understand the full scope of influencing factors of the ecosystem.

Audience: Non-public education groups such as home teaching parents, religious educators, and youth group leaders.

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Costs minimal to cover printing expenses

Contact: Cherish The Earth, Inc.
4320 Craddock Rd
Raleigh, NC 27613
919-571-8027

ENVIRONMENTAL EDUCATION BROCHURES LIST
NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
OFFICE OF ENVIRONMENTAL EDUCATION

Type of Program: This publication is a listing of brochures available from divisions of the North Carolina Department of Environment, Health and Natural Resources. Divisions include: Aquariums, Coastal Management, Environmental Education, Environmental Management, Forest Resources, Land Resources, Marine Fisheries, Museum of Natural Sciences, Parks and Recreation, Soil and Water Conservation, Solid Waste Management, Water Resources, Waste Reduction, Wildlife Resources Commission, and Zoological Park.

Audience: K-Adult

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Free

Contact: NC Dept. of Environment, Health and Natural Resources
Office of Environmental Education
P.O. Box 21687
Raleigh, NC 27611-7687
Phone: 919-946-0711 or 800-482-8724
Fax: 919-733-1616

NEUSE RIVER BASINWIDE PLAN

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT*

Type of Program: Document addresses major water quality issues of the Neuse River basin. Basinwide management if a new watershed-based water quality management initiative being implemented by the Division of Environmental Management which is intended to improve the efficiency, effectiveness, and consistency of the state water quality protection program. (Water quality management plans will be prepared for all 17 major river basins in the state.)

Audience: Secondary schools - adults

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Varies

Contact: Public Involvement Coordinator
NC Dept. of Environment, Health and Natural Resources
Division of Environmental Management
1424 Carolina Avenue
Washington, NC 27889
Phone: 919-946-6481 Fax: 919-975-3716

NORTH CAROLINA GEOLOGICAL SURVEY PUBLICATION LIST

*NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF LAND RESOURCES*

Type of Program: A listing of topographic maps, geologic maps, aerial photography, satellite imagery, and other map products. Also listed are publication bulletins such as "Ground Water Resources in North Carolina," economic papers on the mining industry in North Carolina, Field Trip Guide Books, Open-file Reports, Geologic Notes including "Earth Science Resource Guide for Teachers," and other publications focusing on North Carolina geology.

Audience: High school, college, or adults working with children

Teacher Accreditation: N/A

Location: Raleigh

When: Year-round

Cost: Varies

Contact: NC Dept. of Environment, Health and Natural Resources
Division of Land Resources
Archdale Building
P.O. Box 27687
Raleigh, NC 27611-7687
Phone: 919-733-2423 Fax: 919-733-0900

RESEARCH LIBRARY
NORTH CAROLINA NATIONAL ESTUARINE RESEARCH RESERVE

Type of Program: A research library with print and video material concerning coastal resources and coastal management is available.

Audience: Teachers K-College

Teacher Accreditation: N/A

Location: Beaufort

When: Special arrangements must be made to use the library or videos due to the outreach schedule of staff.

Cost: Free

Contact: North Carolina National Estuarine Research Reserve
Education Coordinator
P.O. Box 1040
Beaufort, NC 28516

“RIPPLES”
NORTH CAROLINA BIG SWEEP

Type of Program: A Big Sweep elementary activity guide concerning litter in the aquatic and marine environment. Each activity follows the

same format including an objective statement, the time and materials required for the activity, and follow-up suggestions.

Audience: Children ages 9-11 but may be modified for younger children

Teacher Accreditation: N/A

Location: Statewide

When: 8:00 AM - 5:00 PM, Monday - Friday except on Holidays

Cost: Free (\$2 charge if materials are shipped)

Contact: Big Sweep Coordinator of your county (See Appendix)
or
North Carolina Big Sweep
P.O. Box 908
Raleigh, NC 27602
Phone: 919-828-6686

“RIVER’S EDGE: 4-H ENVIRONMENTAL SCIENCE ADVENTURE”
NORTH CAROLINA COOPERATIVE EXTENSION SERVICE

Type of Program: Student activity sheets that help children understand soil types; pollution threats to rivers and waterways; the dynamics of water systems such as rain and water pressure, evaporation, and condensation; aquatic ecology, and decision making skills.

Audience: Youth grade 4

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Free

Contact: Department of 4-H Youth Development
Box 7606
Raleigh, NC 27695-7606
Phone: 919-515-3242 Fax: 919-515-7812
or
Contact your county Cooperative Extension Office

SCHOOL YARD ENVIRONMENTAL PROJECTS: A PLANNING PRIMER
NORTH CAROLINA COOPERATIVE EXTENSION SERVICE

Type of Program: A short planner for designing and constructing environmental education projects, classrooms, and nature trails on school property. Equally applicable to rural and urban school settings. A must for organizing resources and bringing projects to fruition.

Audience: Teachers, administrators, parents, volunteers

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Contact: Forestry Extension
Box 8003
North Carolina State University
Raleigh, NC 27695
Phone: 919-5636 Fax: 919-515-6883
or
Contact your county Cooperative Extension Office
(See Appendix)

SOIL AND WATER IN NORTH CAROLINA
NORTH CAROLINA COOPERATIVE EXTENSION SERVICE

Type of Program: A 40 page activity book for children and family regarding soil conservation and water quality preservation. Topics include fertilizing lawns, erosion prevention, and water quality.

Audience: K-Adult

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Free

Contact: Department of 4-H Youth Development
Box 7606
North Carolina State University
Raleigh, NC 27695-7606
Phone: 919-515-3242 Fax: 919-515-7812
Email: emaxa@amaroq.ces.ncsu.edu
or
Contact your county Cooperative Extension Office
(See Appendix)

“SPLISH SPLASH”
NORTH CAROLINA BIG SWEEP

Type of Program: A Big Sweep Aquatic Primer containing activities about litter in the aquatic and marine environment using spelling, reading, art, problem-solving and science. Each activity has an objective statement, the time and materials required for the activity, and follow-up suggestions.

Audience: Children ages 5-7 but may be adapted for older children

Teacher Accreditation: N/A

Location: Statewide

When: 8:00 AM - 5:00 PM, Monday - Friday except on Holidays

Cost: Free (\$2 if shipping is required)

Contact: Big Sweep Coordinator in your county (See Appendix)
or
North Carolina Big Sweep
P.O. Box 908
Raleigh, NC 27602
Phone: 919-828-6686

STORM DRAIN STENCILING
NORTH CAROLINA SEA GRANT

Type of Program: The North Carolina Storm Drain Stenciling Project is a coordinated effort to paint educational messages on storm drains and catch basins that flow to nearby creeks, streams, lakes, coastal waters and the ocean. Painted messages include phrases such as “**Don’t Dump! Drains to Drinking Water Supply**” or “**Keep Clean! Flows to River.**” Alterations can be made for bodies of water in your area. The program is designed to heighten community awareness of nearby waters.

Audience: Volunteer groups including youths such as school, 4-H, Scouts, Boys and Girls Clubs, citizen groups, and local governments

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: Unless it is supplied by the city, each group must purchase paint and stencils

Contact: Water Quality Extension Associate
N. C. Cooperative Extension Service
Phone: 919-515-6771 Fax: 919-515-6771
E-mail: carolyn@ncsu.edu
or
Water Quality Specialist - Storm Drain Stenciling
NC Sea Grant College Program
Box 8202
North Carolina State University
Raleigh, NC 27695-8208
Phone: 919-515-5287
E-mail: BARBARA_DOLL@NCSU.EDU

“TROUBLED RIVERS”

NC DEPT. OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: This recently updated, award-winning video produced by WRAL - TV with Bill Leslie delves into the problems and

possible solutions to water quality problems on the Neuse River. The program traces the Neuse from its headwaters to the waters of Ocracoke Island.

- Audience:** K-12 Teachers
- Teacher Accreditation:** N/A
- Location:** Raleigh
- When:** Year-round
- Cost:** \$3.00 per video (covers cost of shipping)
Free if teacher states purpose and intended audience, and picks the video up from the Museum.
- Contact:** NC Dept. Of Environment, Health and Natural Resources
North Carolina Museum of Natural Sciences
Education Coordinator
P.O. Box 29555
Raleigh, NC 27626-9555
Phone: 919-733-7450 Fax: 919-733-1573
-

For more information on environmental education support material for teachers please refer to the *Teachers' Guide to Environmental Education Programs and Resources*, 1995-95 edition, pp. 61-70.

APPENDIX

ADDITIONAL ENVIRONMENTAL EDUCATION RESOURCES

Croatan National Forest
141 E. Fisher Avenue
New Bern, NC 28560
Phone: 919-638-5628

Duke University Marine Lab
135 Duke Marine Lab Road
Beaufort, NC 28516-9721
Phone: 919-728-2111

Environmental Resource Program
Miller Hall, CB #8165
University of North Carolina
Chapel Hill, NC 27599-5692
Phone: 919-966-7754
Fax: 919-966-5692

Farm Bureau:
Ag in the Classroom
Education Specialist
P.O. Box 27766
Raleigh, NC 27611-7766
Phone: 919-783-4319

National Marine Fisheries Science
Center
Beaufort Lab
121 Pivers Island Rd.
Beaufort, NC 28516
Phone: 919-728-3595
Fax: 919-728-8784

Neuse River Foundation
P.O. Box 15451
New Bern, NC 28561
919-637-7972

NC Center for Geographic Information
and Analysis
115 Hillsborough St.
Raleigh, NC 27603
Phone: 919-715-2090

NC Fisheries Association
P.O. Box 12303
New Bern, NC 28561
Phone: 919-633-2288

NC Forestry Association
1600 Glenwood Ave. Suite 1
Raleigh, NC 27608
Phone: 919-834-3943

NC Dept of Public Instruction
Elementary, Middle, or Secondary
(Indicate one)
Science Consultant
301 N. Wilmington St.
Raleigh, NC 27601-2825
Phone: 919-715-1000
(general information)

SCI LINK/GLOBE NET
1509 Varsity Dr.
Raleigh, NC 27606
Phone: 919-515-5290

UNC - Chapel Hill
Institute of Marine Science
3431 Arendell St.
Morehead City, NC 28557
Phone: 919-726-6841

US Fish and Wildlife Service
Education Programs
P.O. Box 33726
Raleigh, NC 27636
Phone: 919-856-3726

ENVIRONMENTAL EDUCATION CENTERS: NEUSE RIVER BASIN

Carteret County

Fort Macon State Park
Post Office Box 127
Atlantic Beach, NC 28512
Phone: 919-726-3775

North Carolina Aquarium
Pine Knoll Shores
Post Office Box 580
Atlantic Beach, NC 28512
Phone: 919-247-4004

North Carolina Coastal Federation
3609 Highway 24 (Ocean)
Newport, NC 28570
Phone: 919-393-8185

North Carolina Maritime Museum
315 Front Street
Beaufort, NC 28516
Phone: 919-728-7317

Trinity Center Sound to Sea
Environmental Education Program
Post Office Drawer 380
Salter Path, NC 28575
Phone: 919-247-5600

Craven County

Weyerhaeuser's Cool Springs
Environmental Education Center
Post Office Box 1391
New Bern, NC 28563
Phone: 919-633-7413

Durham County

Eno River State Park
6101 Cole Mill Road
Durham, NC 27705-9275
Phone: 919-383-1686

North Carolina Museum of Life and
Science
433 Murray Avenue
Post Office Box 15190
Durham, NC 27704
Phone: 919-220-5429

Johnston County

Clemmons Educational State Forest
2411 Old US 70 West
Clayton, NC 27520
Phone: 919-553-5651

Nash County

Rocky Mount Children's Museum
1610 Gay Street
Rocky Mount, NC 27804
Phone: 919-972-1167
or 919-972-1168

Orange County

North Carolina Botanical Garden
CB# 3375, Totten Center, UNC-CH
Chapel Hill, NC 27599-3375
Phone: 919-962-0522

Pamlico County

Don Lee Center
Route 65, Box 80-A
Arapahoe, NC 28510
Phone: 800-535-5475

Seagull/Seafarer Outdoor Center
Route 65, Box 1
Arapahoe, NC 28510
Phone: 919-249-1111

Pitt County

River Park North
The Walter L. Stasavich Science and
Nature Center
Post Office Box 7207
Greenville NC 27835-7207
Phone: 919-830-4561

Wake County

Blue Jay Point County Park
3200 Pleasant Union Church Road
Raleigh, NC 27614
Phone: 919-870-4330

Durant Nature Park
P.O. Box 590
Raleigh, NC 27602
Phone: 919-831-6856

Falls Lake State Recreation Area
13304 Creedmoor Road
Wake Forest, NC 27587
Phone: 919-676-1027

Jordan Lake State Recreation Center
280 State Park Road
Apex, NC 27501
Phone: 919-362-0586

NC Museum of Natural Sciences
Post Office Box 29555
Bicentennial Plaza
Raleigh, NC 27626
Phone: 919-733-7450

NC State University Arboretum
Department of Horticultural Science
NC State University
Box 7609
Raleigh, NC 27695-7609
Phone: 919-515-3132

Stevens Nature Center
2616 Kildaire Farm Road
Cary, NC 27511
Phone: 919-387-5980

Wake Center
4001 Carya Drive
Raleigh, NC 27610
Phone: 919-250-1100

William B. Umstead State Park
Route 8, Box 130
Raleigh, NC 27612
Phone: 919-787-3033

Wayne County

Cliffs of the Neuse State Park
345-A Park Entrance Road
Seven Springs, NC 28578
Phone: 919-778-6234

Waynesborough State Park
801 Highway 117 South
Goldsboro, NC 28530
Phone: 919-580-9391

Wilson County

Imagination Station
Science Museums of Wilson, Inc.
Post Office Box 2127
Wilson, NC 27893
919-291-5113

KEEP AMERICA BEAUTIFUL AFFILIATES: NEUSE RIVER BASIN

Craven County Clean Sweep
Post Office Box 1425
New Bern, NC 28563
Phone: 919-636-6600

Durham County KAB
Sanitation Operations Specialist
101 City Hall Plaza
Durham, NC 27701
Phone: 919-560-4185

Nash/Edgecombe CLEAN Team
Post Office Box 1180
Rocky Mount, NC 27802
Phone: 919-972-1327

Pitt County Clean Sweep
1717 West Fifth Street
Greenville, NC 27834
Phone: 919-830-6391

**Wake County Keep America
Beautiful**
Post Office Box 550
Raleigh, NC 27602
Phone: 919-856-6779

Keep Wayne County Beautiful
Post Office Box 4
Goldsboro, NC 27533
Phone: 919-731-1600

**Wilson County Environmental
Engineer**
Post Office Box 1728
Wilson, NC 27701
Phone: 919-3 99-2826

LIBRARY RESOURCES: NEUSE RIVER BASIN COUNTIES

Carteret County

Bogue Banks Public Library
320 Salter Path Rd.
Pine Knoll Shores, NC 28512
Phone: 919-247-4660

Carteret Community College -
Library
3505 Arendell St.
Morehead City, NC 28557-2989
Phone: 919-247-6000

Carteret County Public Library
210 Turner St.
Beaufort, NC 28516
Phone: 919-728-2050

Newport Public Library
431 Howard Blvd.
Newport, NC 28570
Phone: 919-223-5108

Craven County

Cove City-Craven County
Public Library
101 S. Main St., P.O. Box 3
Cove City, NC 28523
Phone: 919-638-6363

Craven Community College
Godwin Library
800 College Ct.
New Bern, NC 28562
Phone: 919-638-7272

Havelock-Craven County
Public Library
300 Miller Blvd.
Havelock, NC 28532
Phone: 919-447-7509

New Bern-Craven County
Public Library
400 Johnson St.
New Bern, NC 28560
Phone: 919-638-7800

Vanceboro-Craven County
Public Library
7931 Main St., P.O. Box 38
Vanceboro, NC 28586
Phone: 919-244-0571

Durham County

Duke University
Perkins Library
P.O. Box 90183
Durham, NC 27708-0183
Phone: 919-660-5890

Durham County Library
300 N. Roxboro
P.O. Box 3809
Durham, NC 27702
Phone: 919-560-0100
Call for nearest branch

Durham Technical Community
College - Library
P.O. Drawer 11307
Durham, NC 27703
Phone: 919-598-9222

NC Central University
James E. Shepard Library
1801 Fayetteville St.
Durham, NC 27707
Phone: 919-560-5238

Salvation Army Boys Club
808 Alston Ave.
Durham, NC 27707
Phone: 919-560-0280

Warren Public Library
1201 Fayetteville St.
Durham, NC 27707
Phone: 919-560-0270

Franklin County

Franklin County Library
906 N. Main St.
Louisburg, NC 27549
Phone: 919-496-2111

Bunn Branch:
Franklin County Library
Main St., P.O. Box 213
Bunn, NC 27508
Phone: 919-496-6764

Franklin Public Library
9 E. Mason St.
Franklinton, NC 27525
Phone: 919-494-2736

Youngsville Library
Cross St., P.O. Box 323
Youngsville, NC 27596
Phone: 919-556-1612

Granville County

Thornton Library
210 Main St., P.O. Box 339
Oxford, NC 27565
Phone: 919-693-1121

BRANCHES:

Berea Branch, Oxford
Phone: 919-693-1231
South Branch, Creedmoor
Phone: 919-528-1752
Stovall Branch
Phone: 919-693-5722

Greene County

Green County Public Library
229 Kingold Blvd.
Snow Hill, NC 28580
Phone: 919-747-3437

Johnston County

Johnston Community College -
Library
P.O. Box 398
Smithfield, NC 27577
Phone: 919-934-3051

Public Library of Johnston County
and Smithfield
305 Market St.
Smithfield, NC 27577
Phone: 919-934-8146

Atkinson Memorial Library
5438 NC Hwy 39
Selma, NC 27576
Phone: 919-965-8712

Hocutt Ellington Memorial Library
100 S. Church St.
Clayton, NC 27520
Phone: 919-553-5542

Kenly Public Library
205 Edgerton St.
Kenly, NC 27542
Phone: 919-284-4217

Duncan Public Library
204 Lee St.
Benson, NC 27504
Phone: 919-894-3724

Selma Public Library
301 N. Pollock St.
Selma, NC 27576
Phone: 919-965-8613

Jones County

Comfort Public Library
Rt. 2 Box 156
Trenton, NC 28585
Phone: 919-324-5061

Maysville Public Library
Seventh St.
Maysville, NC 28555
Phone: 910-743-3796

Pollocksville Public Library
Greenhill St.
Pollocksville, NC 28573
Phone: 919-224-5011

Trenton Public Library
P.O. Box 5, Lakeside Dr.
Trenton, NC 28585
Phone: 919-448-4261

Lenoir County

Kinston-Lenoir County Library
510 Queen St.
Kinston, NC 28501
Phone: 919-527-7066

BRANCHES:

LaGrange Branch, LaGrange
Phone: 919-566-3722
Pink Hill Branch, Pink Hill
Phone: 919-568-3631

Lenoir Community College - Library
P.O. Box 188
Kinston, NC 28501
Phone: 919-527-6223

Nash County

Braswell Memorial Library
344 Falls Rd.
Rocky Mount, NC 27804
Phone: 919-442-1951

Nash Community College - Library
P.O. Box 7488
Old Carriage Road
Rocky Mount, NC 27804-7488
Phone: 919-443-4011

NC Wesleyan College
Pearsall Library
3400 N. Wesleyan Blvd.
Rocky Mount, NC 27804

Orange County

Chapel Hill Public Library
100 Library Dr.
Chapel Hill, NC 27514
Phone: 919-968-2777

Orange County Public Library
300 W. Tryon St., P.O. Box 8181
Hillsborough, NC 27278
Phone: 919-732-8181

UNC-Chapel Hill
Wilson Library
CB# 3914
Chapel Hill, NC 27514
Phone: 919-962-1301

Pamlico County

Pamlico County Public Library
P.O. Box 436
Bayboro, NC 28515
Phone: 919-745-3515

Pamlico Community College -
Library
Hwy. 306 South
Grantsboro, NC 28529
Phone: 919-249-1851

Person County

Person County Public Library
319 S. Main St.
Roxboro, NC 27573
Phone: 910-597-7881

Pitt County

Bethel Public Library
201 Ives St., P.O. Box 1170
Bethel, NC 27812
Phone: 919-825-0782

East Carolina University
Joyner Library
Greenville, NC 27858
Phone: 919-328-6068

Langston-Boyd Library
Railroad & Main St., P.O. Box 395
Winterville, NC 28590
Phone: 919-756-1786

Pitt Community College - Library
P.O. Drawer 7007
Greenville, NC 27834
Phone: 919-355-4349

Sheppard Memorial Library
530 Evans St.
Greenville, NC 27858
Phone: 919-830-4580
Call for nearest branch

Wake County

Apex Public Library
220 N. Salem St.
Apex, NC 27502
Phone: 919-387-2100

Athens Dr. Community Library
1420 Athens Dr.
Raleigh, NC 27606
Phone: 919-859-2000

Cameron Village Regional Library
1930 Clark Ave.
Raleigh, NC 27605
Phone: 919-856-6710

Cary Public Library
310 S. Academy St.
Cary, NC 27511
Phone: 919-460-3350

Chavis Heights Neighborhood
Library
1 Edgecombe Terrace
Raleigh, NC 27601
Phone: 919-856-6595

Fuquay-Varina Public Library
133 S. Fuquay Ave
Fuquay-Varina, NC 27526
Phone: 919-557-2788

Glenwood Towers Neighborhood
Library
509 Glenwood Ave.
Raleigh, NC 27603
Phone: 919-856-6596

Halifax Court Neighborhood
Library
947 Wilmington Terrace
Raleigh, NC 27604
Phone: 919-856-6594

Harrison Library
1313 New Bern Ave.
Raleigh, NC 27614
Phone: 919-856-5720

Meredith College
Campbell Library
3800 Hillsborough St.
Raleigh, NC 27607
Phone: 919-829-8383

North Regional Library
200 Horizon Dr.
Raleigh, NC 27615
Phone: 919-870-4000

Peace College
Finch Library
15 E. Peace St.
Raleigh, NC 27604
Phone: 919-508-2236

NC State University
D. H. Hill Library
NCRS Box 7111
Raleigh, NC 27695-7111
Phone: 919-515-2843

Saint Augustine's College
Robinson Library
1315 Oakwood Ave.
Raleigh, NC 27611
Phone: 919-516-4154

Saint Mary's College
Kenan Library
900 Hillsborough St.
Raleigh, NC 27603-1689
Phone: 919-828-2521

Shaw University
James E. Cheek Learning
Resources Center
118 E. South St.
Raleigh, NC 27601
Phone: 919-546-8407

South Raleigh Library
1601-14 Crosslink Rd.
Raleigh, NC 27610
Phone: 919-856-6598

Southeast Regional Library
908 7th Ave
Garner, NC 27529
Phone: 919-662-2250

Wake County Dept. of Library
Administration Building
Wake County Office Park
4020 Carya Dr.
Raleigh, NC 27610
Phone: 919-250-1200
Call for nearest branch

Wake Technical Community College
Library
9101 Fayetteville Rd.
Raleigh, NC 27603
Phone: 919-772-0551

Wayne County

Fremont Public Library
Fremont, NC 27830
Phone: 919-242-5442

Law Library
Wayne County Courthouse
Goldsboro, NC 27530
Phone: 919-731-1457

Mount Olive College
Moye Library
634 Henderson St.
Mount Olive, NC 28365
Phone: 919-658-7168

Pikeville Public Library
Pikeville, NC 27863
Phone: 919-242-6446

Seven Springs Public Library
Seven Springs, NC 28578
Phone: 919-569-2631

Steele Memorial Library
Mt. Olive, NC 28365
Phone: 919-658-2580

Wayne County Public Library
1001 E. Ashe St.
Goldsboro, NC 27530
Phone: 919-735-1824-1824
Rosewood Branch
Phone: 919-731-7031

Wayne Community College - Library
CB 8002
Goldsboro, NC 27533-8002
Phone: 919-735-5151

Wilson County

Barton College
Hackney Library
College Station
Wilson, NC 27893
Phone: 919-399-6501

Wilson County Public Library
249 W. Nash St., P.O. Box 400
Wilson, NC 27894-0400
Phone: 919-237-5355

BRANCHES

Black Creek, Black Creek
Phone: 919-237-3715

Crocker, Stantonsburg
Phone: 919-238-3758

East Branch, Wilson
Phone: 919-237-2627

Elm City Branch, Elm City
Phone: 919-236-4269

Five Points Branch, Wilson
Phone: 919-291-4184

Lucama Branch, Lucama
Phone: 919-239-0046

Wilson Technical Community
College Library
P.O. Box 4305 Woodard Station
Wilson, NC 27893
Phone: 919-291-1195

**NORTH CAROLINA BIG SWEEP AFFILIATES
NEUSE RIVER BASIN**

Carteret County Coordinator
Carteret County Big Sweep
Carteret Co. Cooperative Extension
Courthouse Square
Beaufort, NC 28516-1898
Phone: 919-728-8421

Craven County Coordinator
Craven County Big Sweep
P.O. Box 1425
New Bern, NC 27701
Phone: 919-636-6600

Durham County Coordinator
Durham County Big Sweep
6101 Cole Mill Rd.
Durham, NC 27705
Phone: 919-383-1686

Green County Coordinator
Green County Big Sweep
Rt. 2 Box 236B
Walstonburg, NC 27888

Nash/Edgecombe Coordinator
Nash/Edgecombe Big Sweep
P.O. Box 1180
Rocky Mount, NC 27802
Phone: 919-972-1327

Franklin County Coordinator
Franklin County Big Sweep
Franklin Co. Cooperative Extension
103 S. Bickett Blvd.
Louisburg, NC 27549
Phone: 919-496-3344

Granville County Coordinator
Granville County Big Sweep
Kerr Reservoir
1930 Mays Chapel Rd.
Boyton, VA 23917
Phone: 804-738-6143

Johnston County Coordinator
Johnston County Big Sweep
Johnston County Soil and Water
806 North Street
Smithfield, NC 27577
Phone: 919-989-5381

Jones County Coordinator
Jones County Big Sweep
First Citizens Bank
Maysville, NC
Phone: 919-743-6241

Lenoir County Coordinator
Lenoir County Big Sweep
Chamber of Commerce
301 N. Queen St.
Kinston, NC 28501
Phone: 919-527-1131

Orange County Coordinator
Orange County Big Sweep
Town of Chapel Hill
306 N. Columbia Street
Chapel Hill, NC 27516
Phone: 919-968-2833

Pamlico County Coordinator
Pamlico County Big Sweep
First Citizens Bank
Oriental, NC 28571
Phone: 919-249-1462

Person County Coordinator
Person County Big Sweep
Person County Manager
Person County Courthouse
Roxboro, NC 27573
Phone: 910-597-1720

Pitt County Coordinator
Pitt County Big Sweep
1717 West 5th St.
Greenville, NC 27834
Phone: 919-830-6391

Wake County Coordinator
Wake County Big Sweep
P.O. Box 550
Raleigh, NC 27602
Phone: 919-856-6779

Wayne County Coordinator
Wayne County Big Sweep
Wayne Coop. Extension Service
P.O. Box 68
Goldsboro, NC 27533-0068
Phone: 919-731-1525

Wilson County Coordinator
Wilson County Big Sweep
c/o Adventure Bike and Trail
138 Parkwood Plaza
Wilson, NC 27893
Phone: 919-399-2826

**NORTH CAROLINA COOPERATIVE EXTENSION SERVICE OFFICES
NEUSE RIVER BASIN COUNTIES**

Carteret Cooperative Extension
Courthouse Square
Beaufort, NC 28516-1898
Phone: 919-728-8421

Nash Cooperative Extension
AG Center Drive
Nashville, NC 27856
Phone: 919-459-9810

Craven Cooperative Extension
300 Industrial Drive
New Bern, NC 28562
Phone: 919-633-1477

Orange Cooperative Extension
Post Office Box 8181
Hillsborough, NC 27278
Phone: 919-732-9361

Durham Cooperative Extension
721 Foster Street
Durham, NC 27701
Phone: 919-560-0533

Pamlico Cooperative Extension
Post Office Box 8
Bayboro, NC 28515
Phone: 919-745-4121

Franklin Cooperative Extension
103 South Bickett Boulevard
Louisburg, NC 27549
Phone: 919-496-3344

Person Cooperative Extension
304 South Morgan Street
Roxboro, NC 27573
Phone: 910-599-1195

Granville Cooperative Extension
Post Office Box 926
Oxford, NC 27565
Phone: 919-603-1350

Pitt Cooperative Extension
403 Government Circle
Greenville, NC 27834
Phone: 919-757-2803

Greene Cooperative Extension
229 Kingold Boulevard, Suite E
Snow Hill, NC 28580
Phone: 919-747-5831

Wake Cooperative Extension
4001-E Carya Drive
Raleigh, NC 27610-2914
Phone: 919-250-1100

Johnston Cooperative Extension
806 North Street
Smithfield, NC 27577
Phone: 919-989-5380

Wayne Cooperative Extension
Post Office Box 68
Goldsboro, NC 27533-0068
Phone: 919-731-1525

Jones Cooperative Extension
Post Office Box 218
Trenton, NC 28585
Phone: 919-448-9621

Wilson Cooperative Extension
Post Office Box 3027
Wilson, NC 27895-3027
Phone: 919-237-0111

Lenoir Cooperative Extension
Post Office Box 757
Kinston, NC 28501
Phone: 919-527-2191

Neuse River Basin Supplement
to the
Teachers' Guide to Environmental Education Programs and Resources
Survey Form

1. How did you learn about this guide? (Circle one)
Local Library _____ Newsletter (name) _____
Brochure _____ Government Agency _____
Other (name) _____

2. Do you find the guide useful? (Circle one)
Very useful Somewhat useful Not useful
Comments: _____

3. With which group would you affiliate yourself ? (Circle categories that apply)

General Public	Civic Group
Family/Parent	Environmental Organization
Non-formal Educator	Post Secondary Education
Public School Teacher	Preschool Education
Non-public school educator	Local Government
Educational Administration	Business/Professional Community
Other _____	

4. For you, what is the most effective use of this guide? (Circle categories that apply)

Curriculum enhancement
Professional development opportunities
Knowledge and access of environmental education resources
Planning out-door activities
Planning on-site school activities
Planning youth group activities

5. List ways this guide will help your efforts as an educator.

6. What other types of information/opportunities/events would maximize your teaching efforts in environmental education?

Please forward any additional comments to:
Office of Environmental Education
Post Office Box 27687
Raleigh, NC 27611

Thank you for taking the time to fill out this form and caring in your river basin.

STATE LIBRARY OF NORTH CAROLINA



3 3091 00588 2295

Statewide Assessment

to the

Teacher's Guide to Understanding the State Assessment Program and Results

Survey Form

How did you learn about this guide? (Check one)

Local Library

Brochure

Other (specify)

Do you find the guide useful? (Check one)

Very useful

Somewhat useful

Not useful

Comments

With which group would you discuss your results? (Check all that apply)

General Public

Parents

Non-union Teachers

Public School Teachers

Non-public school educators

Education Administration

Other

Gifted Group

Environmental Organizations

Post Secondary Education

Private School Teachers

Local Government

Business/Trade/Professional Organizations

For how long is the most effective use of this guide? (Check all that apply)

Continuous classroom

Professional development opportunities

Knowledge and needs of environmental education resources

Planning activities

Planning specific activities

Planning year-long projects

Let your boss know will help your efforts in the classroom

What other types of educational opportunities would you like to see?

Planning efforts in environmental education

Please forward any additional comments to:

Office of Environmental Education

P.O. Box 2617

Raleigh, NC 27611

Thank you for taking the time to fill out this form and coming to your first year

NOTES

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